PROJECT NUMBER: 1101
PROJECT TITLE: Entomological Research
PROJECT LEADER: D. L. Faustini
WRITTEN BY: R. M. Lehman
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I. PHYSIOLOGICAL STUDIES OF THE CIGARETTE BEETLE (CB)

A. METHOPRENE

1. **Objective**: Determine the most efficient use of the IGR, methoprene.

2. **Results**: BU treated with Kabat® sampled during processing into ET (1).

3. **Plans**:

   a. Complete studies of Kabat® protected ET.

   b. Continue bioassay evaluations of stem and scraps over time.

B. GLOBAL ECOLOGY

1. **Objective**: Relate CB ecology to the tobacco process and CB control.

2. **Results**: Pheromone trap monitoring program installed in storages and factories of several of our affiliates in Brazil to evaluate CB ecology from the farm to the cigarette (2).

3. **Plans**: Continue studies and report data collected in 1988.

C. FLAVOR EXTRACT STUDY

1. **Objective**: Determine the attractiveness of flavor extracts to the CB.

2. **Results**: Flavor extracts of fig and raisin were tested at full concentration utilizing the olfactometer and mixed-sex CBs. Both extracts were found to be unattractive to the CBs (3).

3. **Plans**: Continue evaluations of prune and apricot.

D. REFERENCES

1. Ryan, L. Memo to Young, M.D. Hogshead of Methoprene (Kabat®) Treated Burley Tobacco. December 15, 1988.

2. Ryan, L. Trip Report to Tobacos Brasileiros Ltda, a ULT subsidiary, and PM Marketing S.A. in Brazil as Part of the Global Ecology Program (in preparation).

3. Minor, M. F. Notebook No. 8539, pp. 71-72.

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